

Figure 1A

1 CACCAGCAGTAGTAGCAGAAGCGAAGAGCGCAAACGCAACCGCTCTCCCCGCGCGTTGGC 60

61 CGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAAGCGGGCAGTGAGCGCA 120

121 ACGCAATTAATGTGAGTTAGCTCACTCATTAGGCACCCCAGGCTTTACACTTTATGCTTC 180

181 CGGCTCGTATGTTGTGTGGAATTGTGAGCGGATAACAATTTACACAGGAAACAGCTATG 240

241 ACCATGATTACGCCAAGCTCGAAATTAACCCTCACTAAAGGGAACAAAAGCTGGAGCTCC 300

301 ACCGCGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGCTGCAGGAATTCGGCACGA 360

361 GAGGCAGCGGCAGCTCCACTCAGCCAGTACCCAGATACGCTGGGAACCTTCCCCAGCCAT 420
1 M 1

421 GGCTTCCCTGGGGCAGATCCTCTTCTGGAGCATAATTAGCATCATCATTATTCTGGCTGG 480
2 A S L G Q I L F W S I I S I I I I L A G 21

481 AGCAATTGCACTCATCATTGGCTTTGGTATTTTCAGGGAGACACTCCATCACAGTCACTAC 540
22 A I A L I I G F G I S G R H S I T V T T 41

541 TGTCGCCTCAGCTGGGAACATTGGGGAGGATGGAATCCTGAGCTGCACTTTTGAACCTGA 600
42 V A S A G N I G E D G I L S C T F E P D 61

601 CATCAAACCTTTCTGATATCGTGATACAATGGCTGAAGGAAGGTGTTTTAGGCTTGGTCCA 660
62 I K L S D I V I Q W L K E G V L G L V H 81

661 TGAGTTCAAAGAAGGCAAAGATGAGCTGTGCGGAGCAGGATGAAATGTTTCAGAGCCCGGAC 720
82 E F K E G K D E L S E Q D E M F R G R T 101

721 AGCAGTGTTTGCTGATCAAGTGATAGTTGGCAATGCCTCTTTGCGGCTGAAAAACGTGCA 780
102 A V F A D Q V I V G N A S L R L K N V Q 121

781 ACTCACAGATGCTGGCACCTACAAATGTTATATCATCACTTCTAAAGGCAAGGGGAATGC 840
122 L T D A G T Y K C Y I I T S K G K G N A 141

841 TAACCTTGAGTATAAACTGGAGCCTTCAGCATGCCGGAAGTGAATGTGGACTATAATGC 900
142 N L E Y K T G A F S M P E V N V D Y N A 161

901 CAGCTCAGAGACCTTGCGGTGTGAGGCTCCCCGATGGTTCCCCCAGCCCACAGTGGTCTG 960
162 S S E T L R C E A P R W F P Q P T V V W 181

961 GGCATCCCAGTTGACCAGGAGCCAACCTTCTCGGAAGTCTCCAATACCAGCTTTGAGCT 1020
182 A S Q V D Q G A N F S E V S N T S F E L 201

Sequence

Figure 1B

1021 GAACTCTGAGAATGTGACCATGAAGGTTGTGTCTGTGCTCTACAATGTTACGATCAACAA 1080
202 N S E N V T M K V V S V L Y N V T I N N 221

1081 CACATACTCCTGTATGATTGAAAATGACATTGCCAAAGCAACAGGGGATATCAAAGTGAC 1140
222 T Y S C M I E N D I A K A T G D I K V T 241

1141 AGAATCGGAGATCAAAAGGCGGAGTCACCTACAGCTGCTAAACTCAAAGGCTTCTCTGTG 1200
242 E S E I K R R S H L Q L L N S K A S L C 261

1201 TGTCTCTTCTTTCTTTGCCATCAGCTGGGCACTTCTGCCTCTCAGCCCTTACCTGATGCT 1260
262 V S S F F A I S W A L L P L S P Y L M L 281

1261 AAAATAATGTGCCCTTGGCCACAAAAAGCATGCAAAGTCATTGTTACAACAGGGATCTAC 1320
282 K * 283

1321 AGAACTATTTCACCACCAGATATGACCTAGTTTATATTCTCTGGGAGGAAATGAATTCAT 1380

1381 ATCTAGAAGTCTGGAGTGAGCAACAAGAGCAAGAAACAAAAGAAGCCAAAAGCAGAAG 1440

1441 GCTCCAATATGAACAAGATAAAATCTATCTTCAAAGACATATTAGAAGTTGGGAAAATAAT 1500

1501 TCATGTGAAGTAGACAAGTGTGTTAAGAGTGATAAGTAAATGCACGTGGAGACAAGTGC 1560

1561 ATCCCAGATCTCAGGGACCTCCCCCTGCCTGTACCTGGGGAGTGAGAGGACAGGATAG 1620

1621 TGCATGTTCTTTGTCTCTGAATTTTATAGTTATATGTGCTGTAATGTTGCTCTGAGGAAGC 1680

1681 CCCTGGAAAGTCTATCCCAACATATCCACATCTTATATCCACAAATTAAGCTGTAGTAT 1740

1741 GTACCCTAAGACGCTGCTAATCGACTGCCACTTCGCAACTCAGGGGCGGCTGCATTTTAG 1800

1801 TAATGGGTCAAATGATTCACTTTTTATGATGCTTCCAAAGGTGCCTTGCTTCTCTTCCC 1860

1861 AACTGACAAATGCCAAAGTTGAGAAAAATGATCATAATTTAGCATAAACAGAGCAGTCG 1920

1921 GCGACACCGATTTTATAAATAAACTGAGCACCTTCTTTTAAACAAACAAATGCGGGTTT 1980

1981 ATTTCTCAGATGATGTTTCATCCGTGAATGGTCCAGGGAAGGACCTTTCACCTTGACTATA 2040

2041 TGGCATTATGTCATCACAAGCTCTGAGGCTTCTCCTTTCCATCCTGCGTGGACAGCTAAG 2100

2101 ACCTCAGTTTCAATAGCATCTAGAGCAGTGGGACTCAGCTGGGGTGATTTGCCCCCCA 2160

2161 TCTCCGGGGGAATGTCTGAAGACAATTTTGGTTACCTCAATGAGGGAGTGAGGAGGATA 2220

bioRxiv preprint doi: <https://doi.org/10.1101/111111>; this version posted November 1, 2016. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 1C

2221 CAGTGCTACTACCAACTAGTGGATAAAGGCCAGGGATGCTGCTCAACCTCCTACCATGTA 2280
2281 CAGGACGTCTCCCCATTACAAC TACCCAATCCGAAGTGTCAACTGTGTCAGGACTAAGAA 2340
2341 ACCCTGGTTTTTGAGTAGAAAAGGGCCTGGAAAGAGGGGAGCCAACAAATCTGTCTGCTTC 2400
2401 CTCACATTAGTCATTGGCAAATAAGCATTCTGTCTCTTTGGCTGCTGCCTCAGCACAGAG 2460
2461 AGCCAGAACTCTATCGGGCACCAGGATAACATCTCTCAGTGAACAGAGTTGACAAGGCCT 2520
2521 ATGGGAAATGCCTGATGGGATTATCTTCAGCTTGTTGAGCTTCTAAGTTTCTTTCCCTTC 2580
2581 ATTCTACCTGCAAGCCAAGTTCTGTAAGAGAAATGCCTGAGTTCTAGCTCAGGTTTCT 2640
2641 TACTCTGAATTTAGATCTCCAGACCCTTCCTGGCCACAATTCAAATTAAGGCAACAAACA 2700
2701 TATACCTTCCATGAAGCACACAGACTTTTGAAAGCAAGGACAATGACTGCTTGAATTG 2760
2761 AGGCCTTGAGGAATGAAGCTTTGAAGGAAAAGAATACTTTGTTTCCAGCCCCCTTCCCAC 2820
2821 ACTCTTCATGTGTTAACCCTGCCTTCCTGGACCTTGGAGCCACGGTGACTGTATTACAT 2880
2881 GTTGTTATAGAAAAC T GATTTTAGAGTCTGATCGTTCAAGAGAATGATTAAATATACAT 2940
2941 TTCCTAAAAAAAAAAAAAAAAAACTCGAGGGGGGGCCCGGTACCCAATTCGCCCTATAGT 3000
3001 GAGTCGTATTACAATTCACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCTGGC 3060
3061 GTTACCCAACTTAATCGCCTTGCAGCACATCCCCCTTCGCCAGCTGGCGTAATAGCGAA 3120
3121 GAGGCCCGCACCGATCGCCCTTCCCAACA KTTGCGCAGCCTGAATGGCGAATGGCAAATT 3180
3181 GTAAGCGTTAATATTTTGTTAAAAATTCGCGTTAAATTTTGTAAATCAGCTCATTTTTT 3240
3241 AACCAATAGGCCGAAATCGGC AAAATCCCTTATAAATCAAAAGAATAGACCGAGATAGGG 3300
3301 TTGAGTGTGTTCCAGTTTGG AACAAGAGTCCACTATTAAAGTGTTCACCGCGGTGA 3357

Figure 2

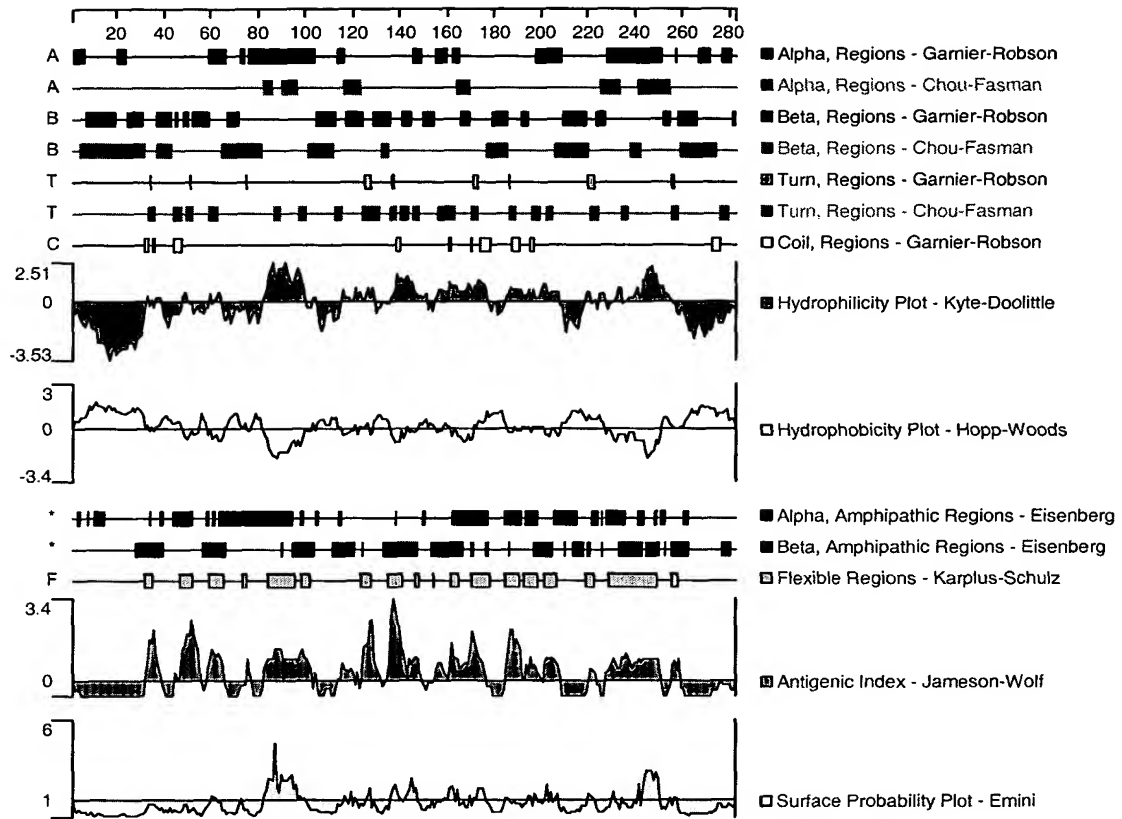


Figure 3A

1 CCACGCGTCCGGAATGAACAACCTTTCTCTCTTGAATATATCTTAACGCCAAATTTTGA 60
61 GTGCTTTTTTGTACCCATCCTCATATGTCCCAGCTGGAAAGAATCCTGGGTGGAGCTA 120
121 CTGCATGTTGATTGTTTTGTTTTTCCTTTTGGCTGTTTCATTTTGGTGGCTACTATAAGGA 180
181 AATCTAACACAAACAGCAACTGTTTTTTGTTGTTTACTTTTGCATCTTTACTTGTGGAGC 240
241 TGTGGCAAGTCCTCATATCAAATACAGAACATGATCTTCCTCCTGCTAATGTTGAGCCTG 300
1 M I F L L L M L S L 10
301 GAATTGCAGCTTCACCAGATAGCAGCTTTATTACAGTGACAGTCCCTAAGGAACGTGAC 360
11 E L Q L H Q I A A L F T V T V P K E L Y 30
361 ATAATAGAGCATGGCAGCAATGTGACCCTGGAATGCAACTTTGACACTGGAAGTCATGTG 420
31 I I E H G S N V T L E C N F D T G S H V 50
421 AACCTTGGAGCAATAACAGCCAGTTTGCAAAAGGTGGAAAATGATACATCCCCACACCGT 480
51 N L G A I T A S L Q K V E N D T S P H R 70
481 GAAAGAGCCACTTTGCTGGAGGAGCAGCTGCCCTAGGGAAGGCCTCGTTCACATACCT 540
71 E R A T L L E E Q L P L G K A S F H I P 90
541 CAAGTCCAAGTGAGGGACGAAGGACAGTACCAATGCATAATCATCTATGGGGTCGCCTGG 600
91 Q V Q V R D E G Q Y Q C I I I Y G V A W 110
601 GACTACAAGTACCTGACTCTGAAAGTCAAAGCTTCCTACAGGAAAATAAACACTCACATC 660
111 D Y K Y L T L K V K A S Y R K I N T H I 130
661 CTAAAGGTTCCAGAAACAGATGAGGTAGAGCTCACCTGCCAGGCTACAGGTTATCCTCTG 720
131 L K V P E T D E V E L T C Q A T G Y P L 150
721 GCAGAAGTATCCTGGCCAAACGTCAGCGTTCTGCCAACACCAGCCACTCCAGGACCCCT 780
151 A E V S W P N V S V P A N T S H S R T P 170
781 GAAGGCCTCTACCAGGTCACCAGTGTCTGCGCCTAAAGCCACCCCTGGCAGAAACTTC 840
171 E G L Y Q V T S V L R L K P P P G R N F 190
841 AGCTGTGTGTCTGGAATACTCACGTGAGGGAACCTACTTTGGCCAGCATTGACCTTCAA 900
191 S C V F W N T H V R E L T L A S I D L Q 210
901 AGTCAGATGGAACCCAGGACCCATCCAACCTTGGCTGCTTCACATTTTCATCCCCCTCTGC 960
211 S Q M E P R T H P T W L L H I F I P S C 230
961 ATCATTGCTTTTCATTTTCATAGCCACAGTGATAGCCCTAAGAAAACAACCTCTGTCAAAG 1020
231 I I A F I F I A T V I A L R K Q L C Q K 250

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 3B

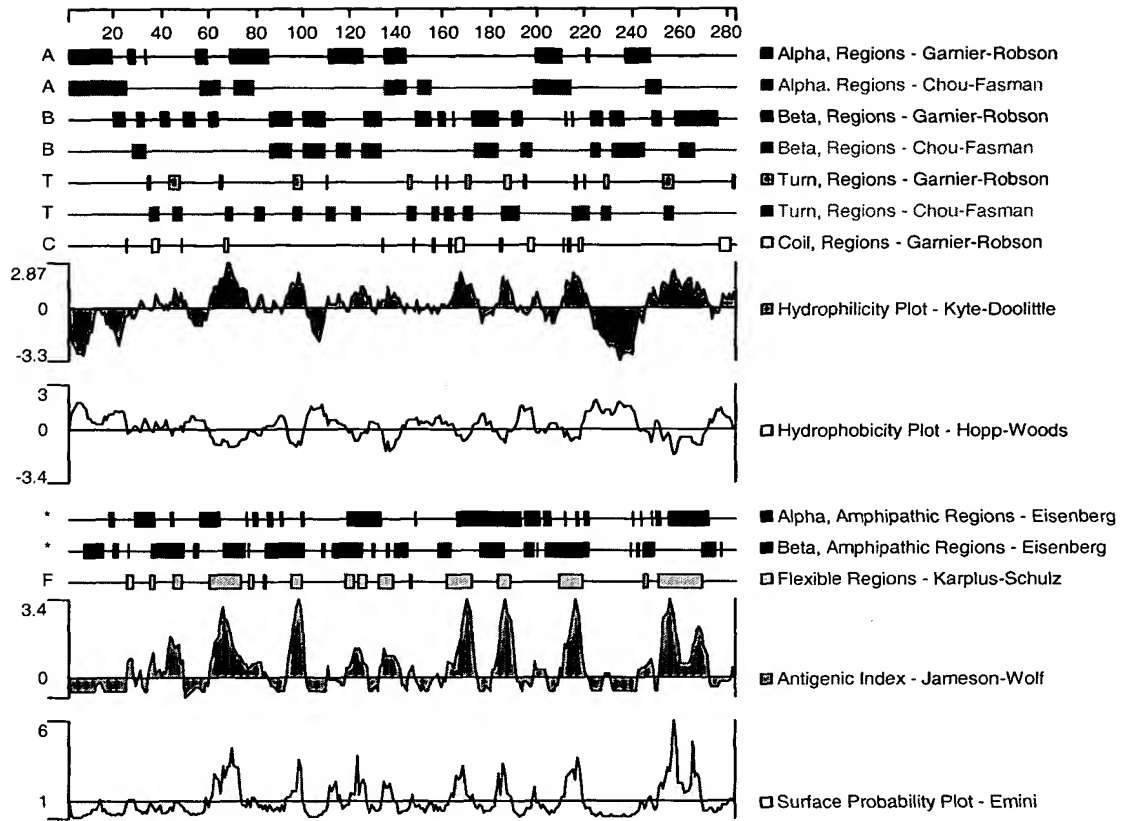
1021	CTGTATTCTTCAAAGACACAACAAAAAGACCTGTCACCACAACAAAGAGGAAGTGAAC	1080
251	L Y S S K D T T K R P V T T T K R E V N	270
1081	AGTGCTGTGAATCTGAACCTGTGGTCTTGGGAGCCAGGGTGACCTGATATGACATCTAAA	1140
271	S A V N L N L W S W E P G *	284
1141	GAAGCTTCTGGACTCTGAACAAGAATTCGGTGGCCTGCAGAGCTTGCCATTTGCACTTTT	1200
1201	CAAATGCCCTTTGGATGACCCAGCACTTTAATCTGAAACCTGCAACAAGACTAGCCAACAC	1260
1261	CTGGCCATGAAACTTGCCCCCTTCACTGATCTGGACTCACCTCTGGAGCCTATGGCTTTAA	1320
1321	GCAAGCACTACTGCACTTTACAGAATTACCCCACTGGATCCTGGACCCACAGAATTCCTT	1380
1381	CAGGATCCTTCTTGCTGCCAGACTGAAAGCAAAAGGAATTATTTCCCTCAAGTTTCTA	1440
1441	AGTGATTTCAAAAGCAGAGGTGTGTGGAATTTCCAGTAACAGAAACAGATGGGTGACC	1500
1501	AATAGAGTTATTTTTTATCTATAGCTTCCTCTGGGTACTAGAAGAGGCTATTGAGACTAT	1560
1561	GAGCTCACAGACAGGGCTTCGCACAAACTCAAATCATAATTGACATGTTTTATGGATTAC	1620
1621	TGGAATCTTGATAGCATAATGAAGTTGTCTAATTAACAGAGAGCATTTAAATATACACT	1680
1681	AAGTGCACAAATTGTGGAGTAAAGTCATCAAGCTCTGTTTTTGAGGTCTAAGTCACAAAG	1740
1741	CATTTGTTTTAACCTGTAATGGCACCATGTTTAATGGTGGTTTTTTTTTTGAAGTACATC	1800
1801	TTTCCTTTAAAAATTATTGGTTTCTTTTTATTGTTTTTACCTTAGAAATCAATTATATA	1860
1861	CAGTCAAAAATATTGATATGCTCATACGTTGTATCTGCAGCAATTCAGATAAGTAGCT	1920
1921	AAAATGGCCAAAGCCCCAAACTAAGCCTCCTTTTCTGGCCCTCAATATGACTTTAAATTT	1980
1981	GACTTTTCAGTGCCTCAGTTTGACATCTGTAATACAGCAATGCTAAGTAGTCAAGGCCT	2040
2041	TTGATAATTGGCACTATGGAAATCCTGCAAGATCCCACTACATATGTGTGGAGCAGAAGG	2100
2101	GTAAGTCGGCTACAGTAACAGCTTAATTTGTGTTAAATTTGTTCTTTATACTGGAGCCATG	2160
2161	AAGCTCAGAGCATTAGCTGACCCTTGAAGTATTCAAATGGGCACATTAGCTAGTATAACA	2220
2221	GACTTACATAGGTGGGCCATAAGCAAGCTCCTTAAGTGAAGCAAAATTTGGGGCTTATGAG	2280

Figure 3C

```
2281  AATGAAAGGGTGTGAAATTGACTAACAGACAAATCATACATCTCAGTTTCTCAATTCTCA 2340
2341  TGTAAATCAGAGAATGCCTTTAAAGAATAAACTCAATTGTTATTCTTCAAAAAAAAAA 2400
2401  AAAAAA 2406
```

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 4



[illegible]

1	GGCACGAGCTGTCATCCGTTTCCATGCCGTGAGGTCCATTACAGAACACATCCATGGCT	60
1		2
		M A
61	CTCATGCTCAGTTTGGTTCTGAGTCTCCTCAAGCTGGGATCAGGGCAGTGGCAGGTGTTT	120
3	L M L S L V L S L L K L G S G Q W Q V F	22
121	GGGCCAGACAAGCCTGTCCAGGCCTTGGTGGGGGAGGACGCAGCATTCTCCTGTTTCCTG	180
23	G P D K P V Q A L V G E D A A F S C F L	42
181	TCTCCTAAGACCAATGCAGAGGCCATGGAAGTGCGGTTCTTCAGGGGCCAGTTCTCTAGC	240
43	S P K T N A E A M E V R F F R G Q F S S	62
241	GTGGTCCACCTCTACAGGGACGGAAGGACCAGCCATTATGCAGATGCCACAGTATCAA	300
63	V V H L Y R D G K D Q P F M Q M P Q Y Q	82
301	GGCAGGACAAAACTGGTGAAGGATTCTATTGCGGAGGGGCGCATCTCTGAGGCTGGAA	360
83	G R T K L V K D S I A E G R I S L R L E	102
361	AACATTACTGTGTTGGATGCTGGCCTCTATGGGTGCAGGATTAGTTCCCAGTCTTACTAC	420
103	N I T V L D A G L Y G C R I S S Q S Y Y	122
421	CAGAAGGCCATCTGGGAGCTACAGGTGTCAGCACTGGGCTCAGTTCCTCTCATTTCATC	480
123	Q K A I W E L Q V S A L G S V P L I S I	142
481	GCGGGATATGTTGATAGAGACATCCAGCTACTCTGTCACTCCTCGGGCTGGTTCCCCCGG	540
143	A G Y V D R D I Q L L C Q S S G W F P R	162
541	CCCACAGCGAAGTGGAAAGGTCCACAAGGACAGGATTTGTCCACAGACTCCAGGACAAAC	600
163	P T A K W K G P Q G Q D L S T D S R T N	182
601	AGAGACATGCATGGCCTGTTTGATGTGGAGATCTCTCTGACCGTCCAAGAGAACGCCGGG	660
183	R D M H G L F D V E I S L T V Q E N A G	202
661	AGCATATCCTGTTCATGCGCATGCTCATCTGAGCCGAGAGGTGGAATCCAGGGTACAG	720
203	S I S C S M R H A H L S R E V E S R V Q	222
721	ATAGGAGACTGGAGAAGAAAGCACGGACAGGCAGGTAAAAGAAAATATTCCTCTTCACAC	780
223	I G D W R R K H G Q A G K R K Y S S S H	242
781	ATTTATGACTCCTTTCCAAGTCTCTCGTTTATGGATTTTTATATCCTGAGGCCCGTGGGT	840
243	I Y D S F P S L S F M D F Y I L R P V G	262
841	CCCTGCAGAGCCAAGCTTGTGATGGGAAGTCTGAAATTGCAGATTCTGGGGGAGGTGCAT	900
263	P C R A K L V M G T L K L Q I L G E V H	282
901	TTTGTAGAGAAGCCCCATAGCCTTCTTCAGATCTCTGGAGGGTCCACAACACTCAAAAAG	960
283	F V E K P H S L L Q I S G G S T T L K K	302

Figure 5B

961 GGTCCCAATCCTTGGTCTTTCCCTTCTCCCTGCGCCCTGTTTCCCACGTGAGCACGGAAC 1020
303 G P N P W S F P S P C A L F P T * 319

1021 TGCCTGCTCTCTCTGCTTTCAGAAATTGAGAGACGCCCGGAAACACGCAGGTACCAA 1080

1081 CGCCTGAGAGGGTAACAGTGGGCATGGAGTAGGAAGATGACCAGTGACAGATATGGAGCC 1140

1141 CATCCAGCTTGTAGACAGCAAATCTGTGATGCCCGAATCCACCCAGGGTGCAGCTGCCT 1200

1201 CTAAATACACTTCTTGGCCCAGGACTTGGAGGGAAAAGCGTAGGGACTGGGTCAGCTAGG 1260

1261 AGGGGTCACAGGCAAGACGCCAGGGAACAGGGCATTAGTAGCTGGCTTCAGGGGTCT 1320

1321 GTGCAAAGGGGAACGAAGTGAAGTTAGCAGGAACGGTGGGTGGAAGGAAGCTGAATCCT 1380

1381 GGAGTCACTCAAGGTCTCACAAAGTCAAATAGAGGGCTTACGTGGGAGGGCAGTGGTAGG 1440

1441 GCTGGGTGAACATCTCATGGTTGAGCATCTCCAAGCATCAGTGAGGCACGGGGGCTGCCC 1500

1501 TGGAGAAGGTACATGGCTGGTGGGATAGTGGGACTGGCCGGATCCTACCCGGAGCCAGTC 1560

1561 TGCAGTGGGAGGGTCGACCTCTTGCTCCAGCCCAGATTTCTGCTTCAGTAACTCATGCTT 1620

1621 CCTCTCTCCCCACCGCACCCCAGTGGAGGTGACTCTGGATCCAGAGACGGCTCACCCGA 1680

1681 AGCTCTGCGTTTCTGATCTGAAACTGTAACCCATAGAAAAGCTCCTCAGGAGGTGCCTC 1740

1741 ACTCTGAGAAGAGATTTACAAGGAAGAGTGTGGTGGCTTCTCAGGGTTTCCAAGCAGGGA 1800

1801 AACATTACTGGGAGGTGGACGTGGGACAAAATGTAGGGTGGTATGTGGGAGTGTGTCGGG 1860

1861 ATGACGTAGACAGGGGAAGAACAATGTGACTTTGTCTCCCAACAATGGGTATTGGGTCC 1920

1921 TCAGACTGACAACAGAACATTTGTATTTACATTCAATCCCCATTTTATCAGCCTCCCCC 1980

1981 CCAGCACCCCTCTACACGAGTAGGGGTCTTCTTGGACTATGAGGGTGGGACCATCTCCT 2040

2041 TCTTCAATACAAATGACCAGTCCCTTATTTATACCTGCTGACATGTCAGTTTGAAGGCT 2100

2101 TGTTGAGACCTATATCCAGCATGCGATGTATGACGAGGAAAAGGGGACTCCCATATTCA 2160

2161 TATGTCCAGTGTCTGGGGATGAGACAGAGAAGACCCTGCTTAAAGGGCCCCACACCACA 2220

Figure 5C

2221 GACCCAGACACAGCCAAGGGAGAGTGCTCCCGACAGGTGGCCCCAGCTTCCTCTCCGGAG 2280
2281 CCTGCGCACAGAGAGTCACGCCCCCACTCTCCTTTAGGGAGCTGAGGTTCTTCTGCCCT 2340
2341 GAGCCCTGCAGCAGCGGCAGTCACAGCTTCCAGATGAGGGGGGATTGGCCTGACCCTGTG 2400
2401 GGAGTCAGAAGCCATGGCTGCCCTGAAGTGGGGACGGAATAGACTCACATTAGGTTTAGT 2460
2461 TTGTGAAAACCTCCATCCAGCTAAGCGATCTTGAACAAGTCACAACCTCCCAGGCTCCTCA 2520
2521 TTTGCTAGTCACGGACAGTGATTCTTGCCTCACAGGTGAAGATTAAAGAGACAACGAATG 2580
2581 TGAATCATGCTTGCAGGTTTGAGGGCCACAGTGTTTGCTAATGGATGTGTTTTTATGATT 2640
2641 ATACATTTTCCCCACCATAAACTCTGTTTGCCTTAATTCACACATTAATTTAACTTTTC 2700
2701 CTCCTATACCCAAATCCACCCATGGAATAGTTAATTGGAACACCTGCCTTTGTGAGGCTC 2760
2761 CAAAGAATAAAGAGGAGGTAGGATTTTCTACTGATTCTATAAGCCCAGCATTACCTGATA 2820
2821 CCAAAACCAGGCAAAGAAAACAGAAGAAGAGGAAGGAAAACCTACAGGTCCATATCCCTCA 2880
2881 TTAACACAGACACAAAAATTCTAAATAAAATTTTAACAAATTAACCTAAACAATATATTT 2940
2941 AAAGATGATATATACTACTCAGTGTGGTTTGTCCACAAATGCAGAGTTGGTTTAATAT 3000
3001 TTAAATATCAACCAGTGTAATTCAGCACATTAATAAAGTAAAAAAAAAAAAAAAAAAAAA 3059

2221 GACCCAGACACAGCCAAGGGAGAGTGCTCCCGACAGGTGGCCCCAGCTTCCTCTCCGGAG 2280
2281 CCTGCGCACAGAGAGTCACGCCCCCACTCTCCTTTAGGGAGCTGAGGTTCTTCTGCCCT 2340
2341 GAGCCCTGCAGCAGCGGCAGTCACAGCTTCCAGATGAGGGGGGATTGGCCTGACCCTGTG 2400
2401 GGAGTCAGAAGCCATGGCTGCCCTGAAGTGGGGACGGAATAGACTCACATTAGGTTTAGT 2460
2461 TTGTGAAAACCTCCATCCAGCTAAGCGATCTTGAACAAGTCACAACCTCCCAGGCTCCTCA 2520
2521 TTTGCTAGTCACGGACAGTGATTCTTGCCTCACAGGTGAAGATTAAAGAGACAACGAATG 2580
2581 TGAATCATGCTTGCAGGTTTGAGGGCCACAGTGTTTGCTAATGGATGTGTTTTTATGATT 2640
2641 ATACATTTTCCCCACCATAAACTCTGTTTGCCTTAATTCACACATTAATTTAACTTTTC 2700
2701 CTCCTATACCCAAATCCACCCATGGAATAGTTAATTGGAACACCTGCCTTTGTGAGGCTC 2760
2761 CAAAGAATAAAGAGGAGGTAGGATTTTCTACTGATTCTATAAGCCCAGCATTACCTGATA 2820
2821 CCAAAACCAGGCAAAGAAAACAGAAGAAGAGGAAGGAAAACCTACAGGTCCATATCCCTCA 2880
2881 TTAACACAGACACAAAAATTCTAAATAAAATTTTAACAAATTAACCTAAACAATATATTT 2940
2941 AAAGATGATATATACTACTCAGTGTGGTTTGTCCACAAATGCAGAGTTGGTTTAATAT 3000
3001 TTAAATATCAACCAGTGTAATTCAGCACATTAATAAAGTAAAAAAAAAAAAAAAAAAAAA 3059

Figure 6

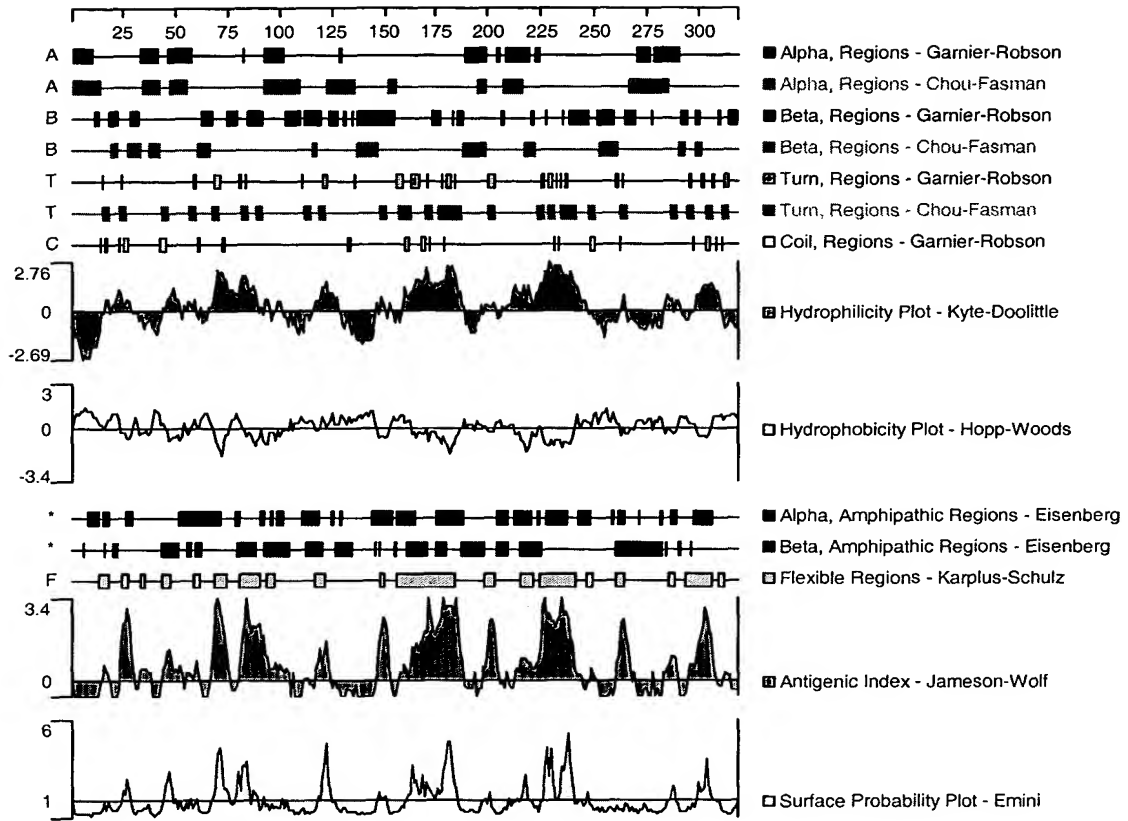


Figure 7A

1 NNCACGAGCCTGTGCCCTGGAAAGGTTGGAGACTTGGGGGACGACTGGAGAATTGCCAT 60
61 TTGAGGACCAAAGGAGAAAAGAACTACACGCTAATTCTAGAGGCCTCCTGTCCCTGCC 120
121 TGCTCTGGGTGCTCATGGAACCAGCTGCTGCCCTGCACTTCTCCCGCCAGCCTCCCTCC 180
1 M E P A A A L H F S R P A S L L 16
181 TCCTCCTCCTCAGCCTGTGTGCACTGGTCTCAGCCCAGTTTACTGTCGTGGGGCCAGCTA 240
17 L L L S L C A L V S A Q F T V V G P A N 36
241 ATCCCATCCTGGCCATGGTGGGAGAAAACACTACATTACGCTGCCATCTGTACCCCGAGA 300
37 P I L A M V G E N T T L R C H L S P E K 56
301 AAAATGCTGAGGACATGGAGGTGCGGTGGTTCCGGTCTCAGTTCTCCCCCGCAGTGTTTG 360
57 N A E D M E V R W F R S Q F S P A V F V 76
361 TGTATAAGGTTGGGAGAGAGAGAACAGAGGAGCAGATGGAGGAGTACCGGGGAAGAATCA 420
77 Y K G G R E R T E E Q M E E Y R G R I T 96
421 CCTTTGTGAGCAAAGACATCAACAGGGGCAGCGTGGCCCTGGTCATACATAACGTCACAG 480
97 F V S K D I N R G S V A L V I H N V T A 116
481 CCCAGGAGAATGGGATCTACCGCTGTTACTTCCAAGAAGGCAGGTCCTACGATGAGGCCA 540
117 Q E N G I Y R C Y F Q E G R S Y D E A I 136
541 TCCTACGCCTCGTGGTGGCAGGCCTTGGGTCTAAGCCCCCTCATTGAAATCAAGGCCCAAG 600
137 L R L V V A G L G S K P L I E I K A Q E 156
601 AGGATGGGAGCATCTGGCTGGAGTGCATATCTGGAGGGTGGTACCCAGAGCCCCCTCACAG 660
157 D G S I W L E C I S G G W Y P E P L T V 176
661 TGTGGAGGGACCCCTACGGTGAGGTTGTGCCCCCCTGAAGGAGGTTTCCATCGCTGATG 720
177 W R D P Y G E V V P A L K E V S I A D A 196
721 CTGACGGCCTCTTCATGGTCACCACAGCTGTGATCATCAGAGACAAGTATGTGAGGAATG 780
197 D G L F M V T T A V I I R D K Y V R N V 216
781 TGTCTGCTCTGTCAACAACACCCTGCTCGGCCAGGAGAAGGAAACTGTCATTTTTATTC 840
217 S C S V N N T L L G Q E K E T V I F I P 236
841 CAGAATCCTTTATGCCCAGCGCATCTCCCTGGATGGTGGCCCTAGCTGTCATCCTGACCG 900
237 E S F M P S A S P W M V A L A V I L T A 256
901 CATCTCCCTGGATGGTGTCCATGACTGTATCCTGGCTGTTTTTCATCATCTTCATGGCTG 960
257 S P W M V S M T V I L A V F I I F M A V 276

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2015. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 7B

961 TCAGCATCTGTTGCATCAAGAACTTCAAAGGGAAAAAAGATTCTGTCAGGGGAAAAGA 1020
277 S I C C I K K L Q R E K K I L S G E K K 296

1021 AAGTTGAACAAGAGGAAAAAGAAATTGCACAGCAACTTCAAGAAGAATTGCGATGGAGAA 1080
297 V E Q E E K E I A Q Q L Q E E L R W R R 316

1081 GAACATTCTTACATGCTGCTGATGTGGTCTGGATCCAGACACCGCTCATCCCGAGCTCT 1140
317 T F L H A A D V V L D P D T A H P E L F 336

1141 TCCTGTCAGAGGACCGGAGAAGTGTGAGGCGGGGCCCTACAGGCAGAGAGTGCCTGACA 1200
337 L S E D R R S V R R G P Y R Q R V P D N 356

1201 ACCCAGAGAGATTTCGACAGTCAGCCTTGTCTCTGGGATGGGAGAGCTTCGCCTCAGGGA 1260
357 P E R F D S Q P C V L G W E S F A S G K 376

1261 AACATTACAGGGGAACTTCACAGAGTGGGACCCACCAGAGCCTATAGAATCAATTCTCT 1320
377 H Y R G N F T E W G P T R A Y R I N S L 396

1321 TGGACTCACAGCCATGCAGAAAGCCCTGGCCATCTCAGCAGCCACCGCACAAACCCCTTA 1380
397 D S Q P C R K P W P S Q Q P P H N P P N 416

1381 ATGAAAGACACGCCCTCCTCCCCTCTGGTCACGTAAGAGAACATCTTCCAGCTGCCTTTT 1440
417 E R H A L L P S G H V R E H L P A A F F 436

1441 TCACACCCACTCCAGCCCTCTGCCCCAGTTTCTCCTCCTCACTAGTCTGTGGCTTTAGT 1500
437 T P T P A L C P S F L L L T S L W L * 455

1501 AGTTCCTTTGCTTGTAATTATGGGATGGGATCCAGGCATAGGGAAGTAGTTGTTTCATAG 1560

1561 CTCCCAGTCAAAAAGAAAGTGAGAGAAGCTGTTGGGCAGCGAACCTACTGTTTAAATCA 1620

1621 GGATAACCACATTAAGCCCAATATGCCAGTTGGCACCAGATGCTGTGGACTTGGAATGAG 1680

1681 GCCAACAGGGTTCACCAGGATGAGAGAGGAGAGAGGAATCCACAGGACCACCAGAAGGGA 1740

1741 GAGGGAACCAGATATGCAGATCAGAGATAGAGGAAGTGTGAGAGGAAAGGGGAGGTCTT 1800

1801 GCTGATTCTTCAGAATGGCTTCTGGACCCTGGAGATGTTTGAAACCAATACCGGGCCCT 1860

1861 GTCTCCCTGAGAGGATTCTCCCTTTGAAGGAGTCCCTTTGCCGGGTGGGCGTCTTCCT 1920

1921 GGACTATGAAGCTGGAGATGTCTCCTTCTACAACATGAGGGACAGATCACACATCTACAC 1980

1981 ATGTCCCCGTTCAGCCTTTAATGTGCCTGTGAGGCCATTCTTCAGGTTAGGGTCTGATGA 2040

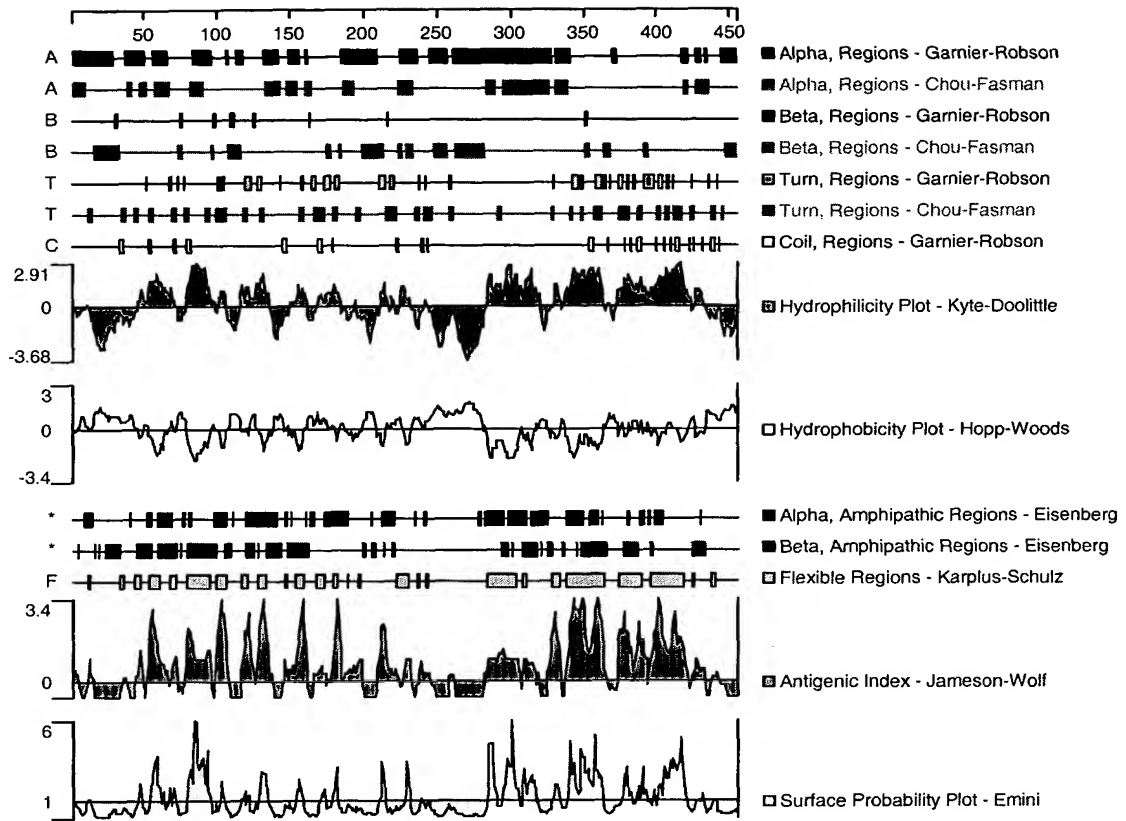
bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2015. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 7C

2041 CAGCCCCATCTTCATCTGCCCTGCACTCACAGGAGCCAGTGGGGTCATGGTGCCTGAAGA 2100
2101 GGGCCTGAAACTTCACAGAGTGGGGACCCACCAAGGTTGTAAGGATGGCTAAGTCCCACC 2160
2161 ATAAGAGCTAAAGGGTCCTGGGAGATGATGGCTCATTTCACCCAACCCAGGATTCCA 2220
2221 CAGCACACACCCACAGGCCTGGACCTGGGATGAAGATGAATGAAGAACATGGACTCATGT 2280
2281 GGATGTGGTTTGGCTCAGATGTCCCTGCAATAAACAAGGGGTCAGTACTTAGTCCCTGAG 2340
2341 TGTGGTTGAGGTTTGAGGTCCTGGTCGAGCAGGGCAGTACTGGACCAGGTCTACGTCAGC 2400
2401 ATTCAGGTTCAATGGGGACACCAGTGGCTTCAAACCTCCTGATCTAATTATGTTTTAGA 2460
2461 CACTTAGAAGTTATTGAGGACTTTAAAGAACTTTTGTTTATTGGGGTTAATATTTATGAC 2520
2521 ATTTGACCATTGAAACAAAAATTTAAATGTTATCTTTTAATTTATGTTAAAAATAGCATT 2580
2581 AATAAATCAGTTATAGGTTAATGTAGATAGGATGTTTTGTGAAAAAGCAATCTATTGTGT 2640
2641 CCAAATAAAAAACAAAAAGTGTAaaaaaaaaaaaaaaaaaaaaa 2682

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 8



bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 9A

1 CGATTTCGGCTCCAAACTCCGGCGCTGCAGCCGATCGGACTCTGGGCCGCGGTGGGCACCG 60
61 CGCGCAGCTAGGGAGCCGAGAACC CGGCGAGCCCCGAGGACGCCCAGAGCGCGAGGGTC 120
121 GCTGCGCCTCGCAGAGCCGGAGCCGAGTCGAGCCGGGCGCCCGGGCTGCCTGGAGACGCC 180
181 GTGACTTTGAAGTGTAAGTCAAGACAGATGGGCGCATGCGGGAGATCGTGTGGTACCGG 240
1 M R E I V W Y R 8
241 GTGACGGATGGTGGCACCATCAAGCAAAAGATCTTCACCTTCGACGCCATGTTCTCCACC 300
9 V T D G G T I K Q K I F T F D A M F S T 28
301 AACTACTCACACATGGAGAACTACCGCAAGCGAGAGGACCTGGTGTACCAGTCCACTGTG 360
29 N Y S H M E N Y R K R E D L V Y Q S T V 48
361 AGGCTGCCCCGAGGTCCGGATCTCAGACAATGGTCCCTATGAGTGCCATGTGGGCATCTAC 420
49 R L P E V R I S D N G P Y E C H V G I Y 68
421 GACCGCGCCACCAGGGAGAAAGTGGTCCCTGGCATCAGGCAACATCTTCCTCAACGTCATG 480
69 D R A T R E K V V L A S G N I F L N V M 88
481 GCTCCTCCCACCTCCATTGAAGTGGTGGCTGCTGACACACCAGCCCCCTTCAGCCGCTAC 540
89 A P P T S I E V V A A D T P A P F S R Y 108
541 CAAGCCCAGAACTTCACGCTGGTCTGCATCGTGTCTGGAGGAAAACCAGCACCCATGGTT 600
109 Q A Q N F T L V C I V S G G K P A P M V 128
601 TATTTCAAACGAGATGGGGAACCAATCGACGCAGTGCCCTTATCAGAGCCACCAGCTGCG 660
129 Y F K R D G E P I D A V P L S E P P A A 148
661 AGCTCCGGCCCCCTACAGGACAGCAGGCCCTTCCGCGAGCCTTCTGCACCGTGACCTGGAT 720
149 S S G P L Q D S R P F R S L L H R D L D 168
721 GACACCAAGATGCAGAAGTCACTGTCCCTCCTGGACGCCGAGAACC GGGGTGGGCGACCC 780
169 D T K M Q K S L S L L D A E N R G G R P 188
781 TACACGAGCGCCCCCTCCCGTGGCCTGACCCAGATCCCAACATCCTCCTCCAGCCAACC 840
189 Y T E R P S R G L T P D P N I L L Q P T 208
841 ACAGAGAACATACCAGAGACGGTCGTGAGCCGTGAGTTTCCCCGCTGGGTCCACAGCGCC 900
209 T E N I P E T V V S R E F P R W V H S A 228
901 GAGCCCACCTACTTCTGCGCCACAGCCGCACCCCGAGCAGTGACGGCACTGTGGAAGTA 960
229 E P T Y F L R H S R T P S S D G T V E V 248
961 CGTGCCCTGCTCACCTGGACCCTCAACCCACAGATCGACAACGAGGCCCTTTCAGCTGC 1020
249 R A L L T W T L N P Q I D N E A L F S C 268

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2015. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 9B

1021 GAGGTCAAGCACCCAGCTCTGTCGATGCCCATGCAGGCAGAGGTCACGCTGGTTGCCCCC 1080
269 E V K H P A L S M P M Q A E V T L V A P 288

1081 AAAGGACCCAAAATTGTGATGACGCCCAGCAGAGCCCGGTAGGGGACACAGTGAGGATT 1140
289 K G P K I V M T P S R A R V G D T V R I 308

1141 CTGGTCCATGGGTTTCAGAACGAAGTCTTCCCGAGCCCATGTTACGTGGACGCGGGTT 1200
309 L V H G F Q N E V F P E P M F T W T R V 328

1201 GGGAGCCGCTCCTGGACGGCAGCGCTGAGTTCGACGGGAAGGAGCTGGTGTGGAGCGG 1260
329 G S R L L D G S A E F D G K E L V L E R 348

1261 GTTCCCGCCGAGCTCAATGGCTCCATGTATCGCTGCACCGCCCAGAACCCACTGGGCTCC 1320
349 V P A E L N G S M Y R C T A Q N P L G S 368

1321 ACCGACACGCACACCCGGCTCATCGTGTGTTGAAAACCCAAATATCCCAAGAGGAACGGAG 1380
369 T D T H T R L I V F E N P N I P R G T E 388

1381 GACTCTAATGGTTCCATTGGCCCCACTGGTGCCCGGCTCACCTTGGTGTCTGCCCTGACA 1440
389 D S N G S I G P T G A R L T L V L A L T 408

1441 GTGATTCTGGAGCTGACGTGAAGGCACCCGCCCCGGCCACTCCATCAGGCACTGACATCT 1500
409 V I L E L T * 415

1501 CCGCGACCGGTTTTTCATTTCTTTTCTAAACTATTTCCAGTCTTGTTCTTAGTCTCTTTCC 1560

1561 ATCTGTGTCTTGGCTTCTTCAGTCGGTTTAATTAAACAAACAGAACAATTTTCCCCACA 1620

1621 AA 1680

1681 AA 1724

Figure 10

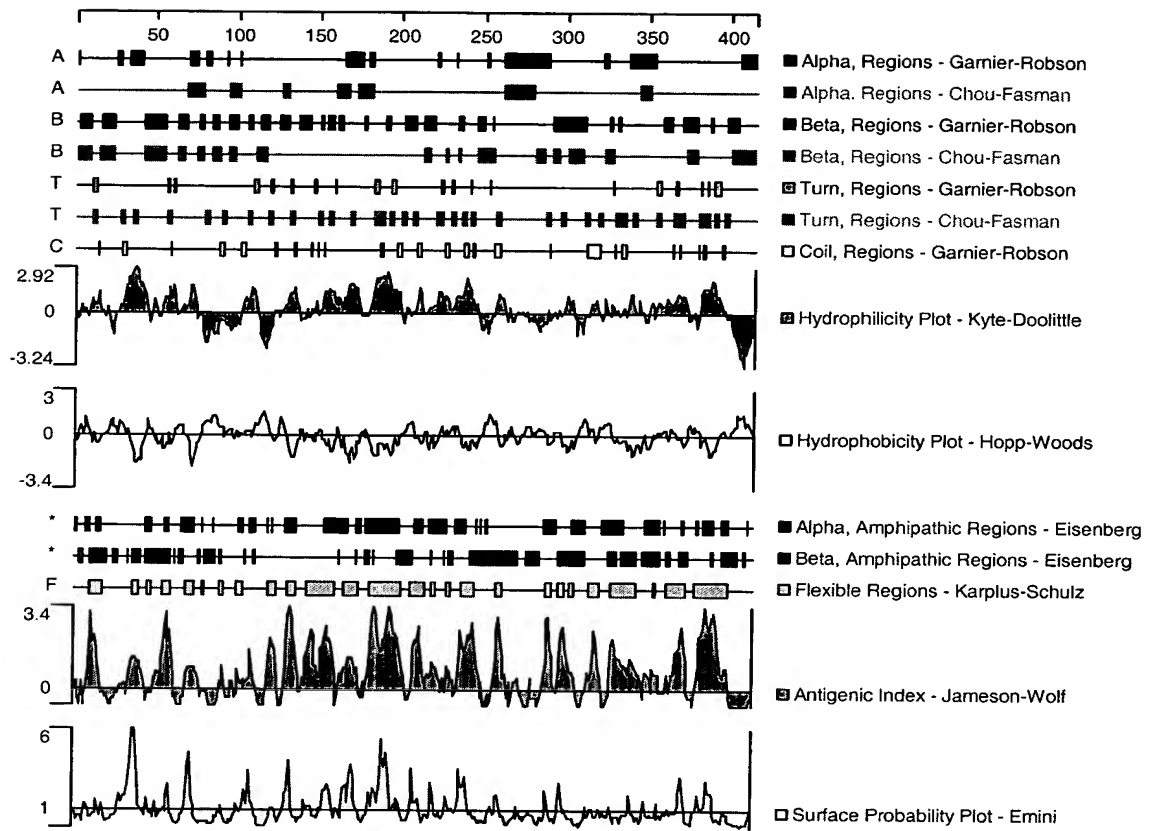


Figure 11

1 CACGAGCCTGTGCCCTGGAAAGGTTGGAGACTTGGGGGACGACTGGAGAATTGCCATTT 60

61 GAGGACCAAAGGAGAAAAGAACTACACGCTAATTCTAGAAGGCCTCCTGTCCCTGCCTG 120

121 CTCTGGGTGCTCATGGAACCAGCTGCTGCCCTGCACTTCTCCCGCCAGCCTCCCTCCTC 180
1 M E P A A A L H F S R P A S L L 16

181 CTCTCCTCAGCCTGTGTGCACTGGTCTCAGCCCAGGTCACTGTCTGCGGGGCCACTGAT 240
17 L L L S L C A L V S A Q V T V V G P T D 36

241 CCCATCCTGGCCATGGTGGGAGAAAACACTACGTTACGATGCTGTCTGTACCCGAGGAA 300
37 P I L A M V G E N T T L R C C L S P E E 56

301 AATGCTGAGGACATGGAGGTGCGGTGGTTCCAGTCTCAGTTCTCCCCTGCAGTGTGTTGTG 360
57 N A E D M E V R W F Q S Q F S P A V F V 76

361 TATAAGGGTGAAGAGAGAGAACAGAGGAGCAGAAGGAGGAGTACCGAGGGAGAACCACC 420
77 Y K G G R E R T E E Q K E E Y R G R T T 96

421 TTTGTGAGCAAAGACAGCAGGGGAGCGTGGCCCTGATCATAACAATGTACAGCCGAG 480
97 F V S K D S R G S V A L I I H N V T A E 116

481 GATAACGGCATCTACCAGTGTACTTCCAAGAAGGCAGGTCTTGCAATGAGGCCATCCTG 540
117 D N G I Y Q C Y F Q E G R S C N E A I L 136

541 CACCTTGTGGTGGCAGACCAGCACAACTCTTTCTTGATCCCCATTCCGCAGGGGACA 600
137 H L V V A D Q H N P L S W I P I P Q G T 156

601 CTCTCCCTATGAAAAGAAGATTCCAGGGGAAAAATCCTTCCTCCTGCACAAGGGCCACCA 660
157 L S L * 160

661 TGAGTGAGTTTGCCCTGCTAAGCCGTGGGCTTGACTTCTTGAGAAGCACATGCAGAACTC 720

721 AGTTGAGGCCATGAGCCGGGGGAAAATGGTGAATCTCGGAAGAGAAGTCCTATGCCTGCC 780

781 TTAGCACTGAGCTGTGCACTTCTGAGAGTGAGAGGAGACACCATCAATAATTGTCTTGGG 840

841 ACAACTGGAATAAACAGTGACTGCCCAGAGAACTACGATATTTGAAATCTTATTTCTTGA 900

901 TGAATATTCATCCTGACTTCTTTCTGAAATGCTGTTTGCAAAGAGAGTGACTTATATGT 960

961 AAGTAGAGCGTTTTATTAAAGCAAGACTTAATACAGAAGCAAAAAAAAAAAAAAAAAAAAA 1019

Figure 12

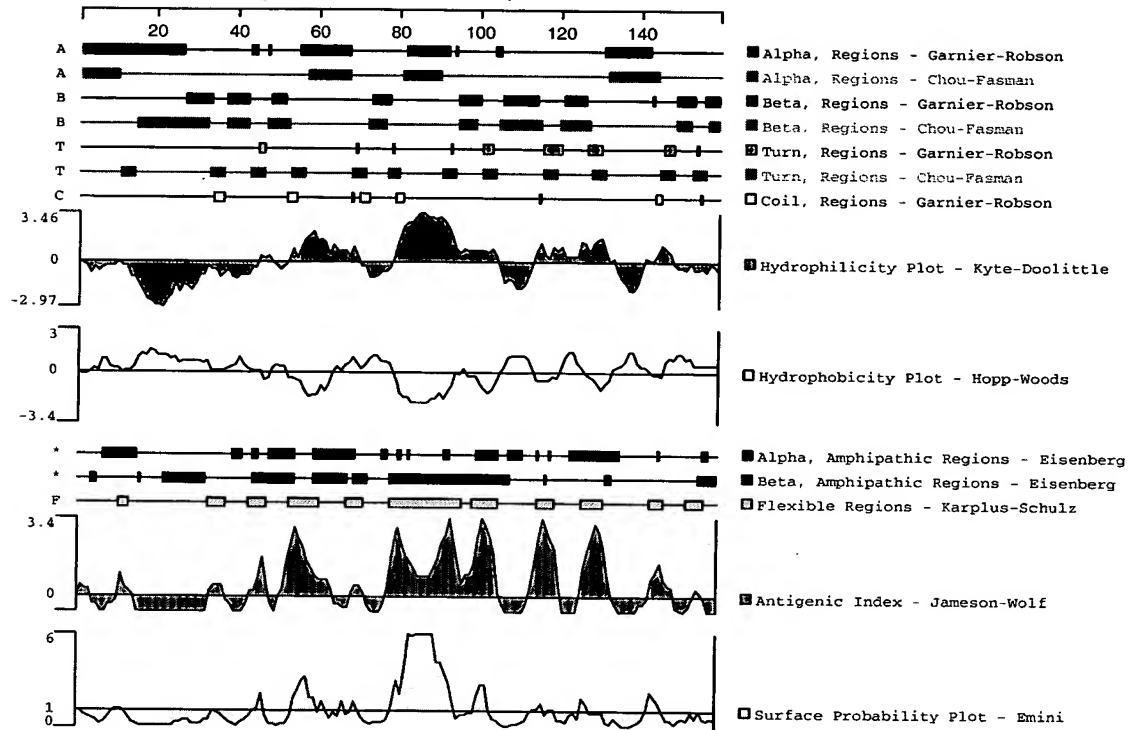


Figure 13A

1 ACATCCATGGCTCTAATGCTCAGTTTGGTTCTGAGTCTCCTCAAGCTGGGATCAGGGCAG 60
1 M A L M L S L V L S L L K L G S G Q 18

61 TGGCAGGTGTTTGGGCCAGACAAGCCTGTCCAGGCCCTGGTGGGGAGGACGCAGCATTC 120
19 W Q V F G P D K P V Q A L V G E D A A F 38

121 TCCTGTTTCTGTCTCCTAAGACCAATGCAGAGGCCATGGAAGTGGGTTCTTCAGGGGC 180
39 S C F L S P K T N A E A M E V R F F R G 58

181 CAGTTCTCTAGCGTGGTCCACCTCTACAGGGACGGGAAGGACCAGCCATTTATGCAGATG 240
59 Q F S S V V H L Y R D G K D Q P F M Q M 78

241 CCACAGTATCAAGGCAGGACAAAACCTGGTGAAGGATTCTATTGCGGAGGGGCGCATCTCT 300
79 P Q Y Q G R T K L V K D S I A E G R I S 98

301 CTGAGGCTGGAACCATTAAGTGTGTTGGATGCTGGCCTCTATGGGTGCAGGATTAGTTCC 360
99 L R L E N I T V L D A G L Y G C R I S S 118

361 CAGTCTTACTACCAGAAGGCCATCTGGGAGCTACAGGTGTCAGCACTGGGCTCAGTTCTT 420
119 Q S Y Y Q K A I W E L Q V S A L G S V P 138

421 CTCATTTCCATCACGGGATATGTTGATAGAGACATCCAGCTACTCTGTCTCAGTCTCGGGC 480
139 L I S I T G Y V D R D I Q L L C Q S S G 158

481 TGGTTCCTCCGGCCACAGCGAAGTGGAAAGGTCCACAAGGACAGGATTTGTCCACAGAC 540
159 W F P R P T A K W K G P Q G Q D L S T D 178

541 TCCAGGACAAACAGAGACATGCATGGCCTGTTTGATGTGGAGATCTCTCTGACCGTCCAA 600
179 S R T N R D M H G L F D V E I S L T V Q 198

601 GAGAACGCCGGGAGCATATCCTGTTCCATGCGGCATGCTCATCTGAGCCGAGAGGTGGAA 660
199 E N A G S I S C S M R H A H L S R E V E 218

661 TCCAGGGTACAGATAGGAGATACCTTTTTCGAGCCTATATCGTGGCACCTGGCTACCAA 720
219 S R V Q I G D T F F E P I S W H L A T K 238

721 G TACTGGGAATACTCTGCTGTGGCCTATTTTTTGGCATTGTTGGACTGAAGATTTTCTTC 780
239 V L G I L C C G L F F G I V G L K I F F 258

781 TCCAAATTCCAGTGGAATAATCCAGGCGAACTGGACTGGAGAAGAAAGCACGGACAGGCA 840
259 S K F Q W K I Q A E L D W R R K H G Q A 278

841 GAATTGAGAGACGCCCCGAAACACGCAGTGGAGGTGACTCTGGATCCAGAGACGGCTCAC 900
279 E L R D A R K H A V E V T L D P E T A H 298

901 CCGAAGCTCTGCGTTTCTGATCTGAAAACCTGTAACCCATAGAAAAGCTCCCCAGGAGGTG 960
299 P K L C V S D L K T V T H R K A P Q E V 318

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 13B

961 CCTCACTCTGAGAAGAGATTTACAAGGAAGAGTGTGGTGGCTTCTCAGAGTTTCCAAGCA 1020
319 P H S E K R F T R K S V V A S Q S F Q A 338

1021 GGGAAACATTACTGGGAGGTGGACGGAGGACACAATAAAAGGTGGCGGTGGGAGTGTGC 1080
339 G K H Y W E V D G G H N K R W R V G V C 358

1081 CGGGATGATGTGGACAGGAGGAAGGAGTACGTGACTTTGTCTCCCGATCATGGGTACTGG 1140
359 R D D V D R R K E Y V T L S P D H G Y W 378

1141 GTCCTCAGACTGAATGGAGAACATTTGTATTTACATTAAATCCCCGTTTTATCAGCGTC 1200
379 V L R L N G E H L Y F T L N P R F I S V 398

1201 TTCCCCAGGACCCACCTACAAAAATAGGGGTCTTCCTGGACTATGAGTGTGGGACCATC 1260
399 F P R T P P T K I G V F L D Y E C G T I 418

1261 TCCTTCTTCAACATAAATGACCAGTCCCTTATTTATACCTGACATGTCGGTTTGAAGGC 1320
419 S F F N I N D Q S L I Y T L T C R F E G 438

1321 TTATTGAGGCCCTACATTGAGTATCCGTCTATAATGAGCAAAATGGAACCTCCAGAGAC 1380
439 L L R P Y I E Y P S Y N E Q N G T P R D 458

1381 AAGCAACAGTGAGTCCTCCTCACAGGCAACCACGCCCTTCCTCCCCAGGGTGAAATGTA 1440
459 K Q Q * 462

1441 GGATGAATCACATCCACATTCTTCTTTAGGGATATTAAGGTCTCTCTCCAGATCCAAA 1500

1501 GTCCCGCAGCAGCCGCCAAGGTGGCTTCCAGATGAAGGGGGACTGGCCTGTCCACATGG 1560

1561 GAGTCAGGTGTCATGGCTGCCCTGAGCTGGGAGGGAAGAAGGCTGACATTACATTTAGTT 1620

1621 TGCTCTCACTCCATCTGGCTAAGTGATCTTGAAATACCACCTCTCAGGTGAAGAACCGTC 1680

1681 AGGAATTCCCATCTCACAGGCTGTGGTGTAGATTAAGTAGACAAGGAATGTGAATAATGC 1740

1741 TTAGATCTTATTGATGACAGAGTGTATCCTAATGGTTGTTTCATTATATTACACTTTCAG 1800

1801 TAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1833

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2014. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Figure 14

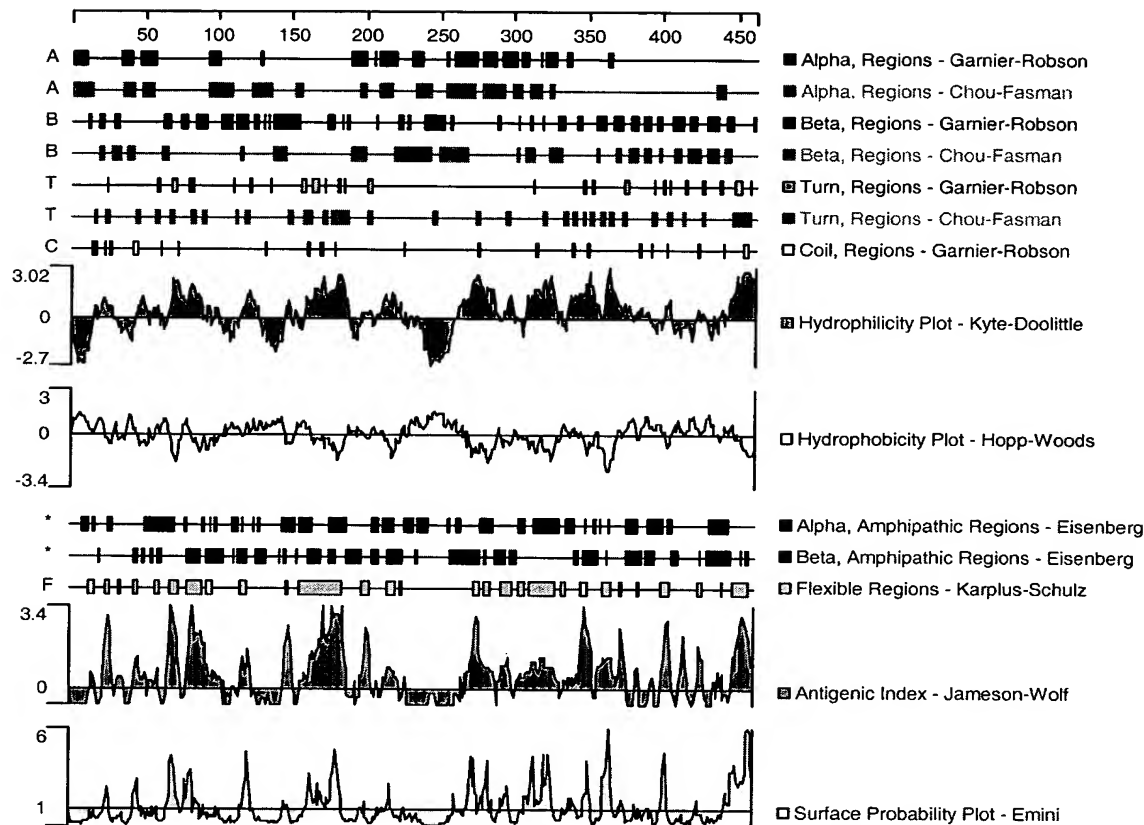


Figure 15

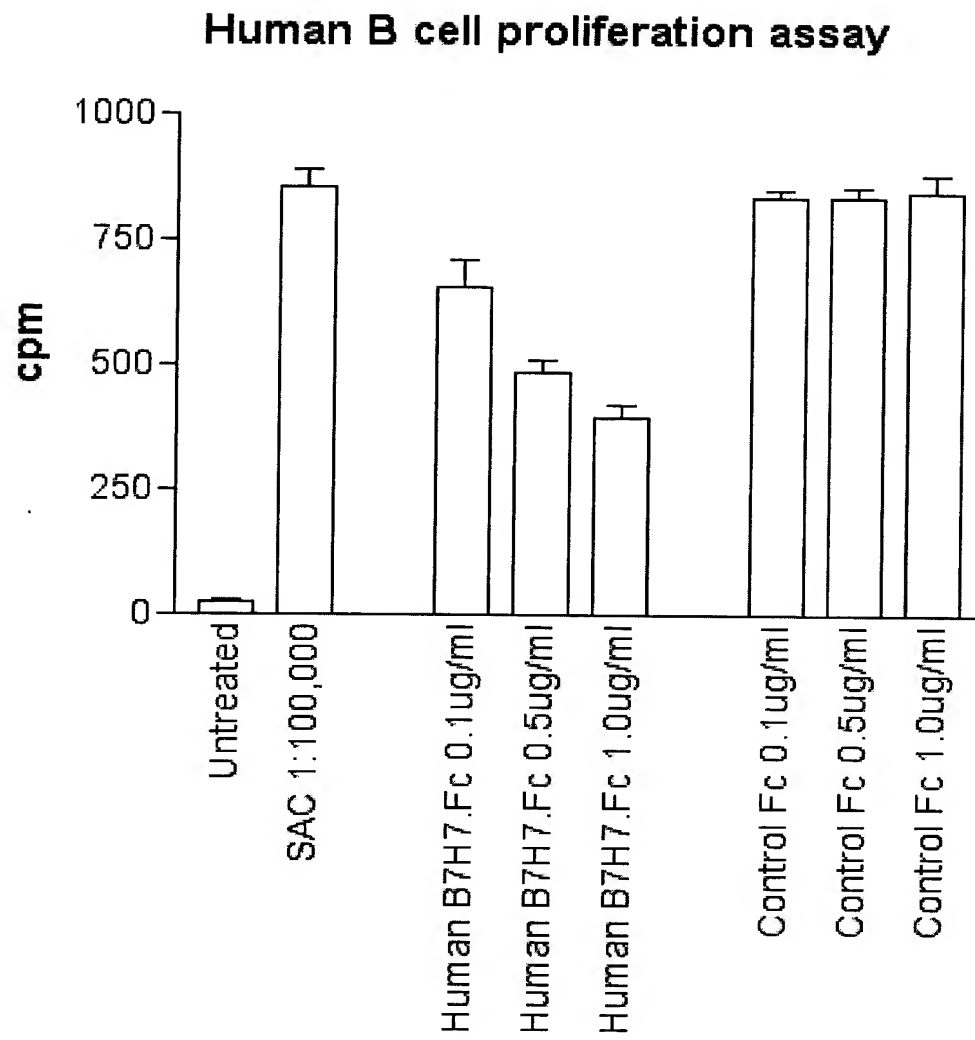


Figure 16

